

Product datasheet for **MC220786**

Ppp1r10 (NM_001163818) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Ppp1r10 (NM_001163818) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ppp1r10 |
| Synonyms: | 2610025H06Rik; Cat53; D17Ertd808e; Fb19; Pnuts |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC220786 representing NM_001163818
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGTTCAGTCCCATAGACCCAAAGAAGTCTCAAGGGCCTGGATAGCTTCTTACCCGGGACGGAG
 AAGTGAAGAGTGTGGATGGAATTTCCAAGATCTTCAGTCTAATGAAGGAGGCACGAAAGATGGTGGATCG
 GTGCACGTAAGTGAACATAATCCTGCAGACCCGCGCTCCAGAAGTCTCGTCAAGTTTATTGATGTCGGT
 GGCTACAAGTCTGAACAACTGGCTAACATATCAAAGACCACCAACAACATTCCTCTCTACAGCAGA
 TTCTGCTGACTCTGCAGCACCTCCCGCTCACTGTGGACCATCTCAAGCAGAAACAACAGCAAACTAGT
 GAAGCAGCTCAGCAAGTCAAGTGAAGTGAAGAGCTCCGAAATGGCATCAGTCTTGTGAGTACTGG
 ATGGCTGCATCCGCTCCAGAGTAGCACCCAGCTGCAGAGAAAGATAAGAAGAAAAGGAAGGAAGAGG
 GAAAAAGTGAACACGCTTCTGAGCGCCTTTGACTGAAGTGAAGGCTGAGACCCGGGCTGAGGAAGC
 CCCAGAGAAGAAGAAAGAGAAGCCAAGTCACTTAGAAGTACGGCACCCAGTCAAGCAAGTTCGGTTCT
 ACTGGACTGGAGCTGGACACCCATCTTTGGTGCCTGTGAAGAAGAACTCCAGCACTGTGGTTGTGTGAG
 ACAAGTACAACCTGAAGCCCATCCCCCTGAAGCGGCAGAGTGCCACAGCTGCTCCAGGTGACGCTGCCCC
 ACCTGCAGAGAAGAAATACAAGCCTCTCAACACAGCCCCCAATACCACCAAGAAATCAAAGTGAAGATC
 ATCCCTCCACAGCCTATGGAGGGCCTGGGTTTTCTGGATGCTCTCAATTCAGCCCTGTCCAGGCATCA
 AAATTAAGAAGAAGAAGAAGGTAATATCGCCGACTGCTGCCAAGCCAGCCCTTTTGAAGGGAAAACAAG
 CACCGAGCAGAGCACAGCCAACTTCTCCCCAGAGCCTGCACCACTGCTGAGCCATGGACACGGAC
 CGCCCTGGCACCCCTGTCCCCCTGTTGAAGTCCAGAGCTCATGGATGCAGCCTTTCAGAGCCAGGAG
 CTCTGGATGCAAAAGCCTGTGGACAGCCCTGGAGATCCCAACCAAGTCACTCGCAAGGGAGAAAGGAA
 AACTGTGACTTGGCCTGAGGAGGCAAGCTGAGAGAGTATTTCTACTTTGAACTGGACGAAACTGAGCGA
 GTGAATGTGAACAAGATCAAAGACTTCGGGGAGGCTGCTAAGCGTGAAGTACTGTCTGACCGACATGCTT
 TCGAGACAGCTCGCGACTAAGCCATGACAATATGGAGGAGAAAGTGCCTTGGGTGTGCCAGGCCTCT
 GGTTCGCCCTCACCTCTGTGATCCCTGGAAGCAACAGCCAGGAGCGATACATCCAGGCAGAGCGGGAG
 AAGGGCATCCTTCAGGAAGTCTTCTGAACAAGGAGAGTCCACATGAACCTGATCCTGAGCCATATGAAC
 CCATCCCCAAAAGTCACTCCCTTGGATGAGGAATGTGCCATGGATGAGACTCCATATGTCGAGACCT
 GGAGCCTGGAGGGTCTGGTGGCTCACCTGATGGAGCAGGAGGCTCCAAGTGCCTCCAGTCTGGCCAAT
 CTTATGGGAAGCATGGGAGCTGAAAGAGCCCCAGGGCCTGGAGGAGCGGCATCAATGTTCCAGGAGA
 TCCTCACTCCATAATGGGCAAGTCCAAACAGCCACCTTCAGAGGAGCTGCTGAAGCAGCCTGACTACTC
 AGACAAGCTCAAGCAGATGCTGGTGCCTCATGGGCTCCTAGTCTTGGTCTGTGGCCAATGGCTTTCCA
 CCAGGAGGCCCTGGGGGCCCAAGGGTATGAGCATTTCCTCCCTGGTCTGGAGGGCCATGCCAGGTC
 CCCATGGAGGCCCTGGTGGACAGTGGTCCACGTCTCTTAGGTCCCCACCACCTTCTCGGGGAGGTGA
 TCCATTCTGGGATGGCCAGGTGATCCAATGCGAGGTGGCCCAATGCGTGGGGGTCCAGGACCTGCTCCC
 GGACCATACCACAGAGGCCGAGGGGGTTCGAGGAGGAAATGAGCCACCGCCACCACCTCCATTCCGAGGAG
 CCAGAGGAGTCTGTTCCGGAGGAGGACCACCAATGGCCGAGGGGTCTGGTGGAGGAGCATGGTTGG
 AGGTGGTGGGACCGCCCATGAAGGCCCTGGAGGGAGCATGGGCAGTGGACATCGTTCATGATGGC
 CCTGGAGGGAACATGGGCAAGTGGACATCGTTCTCATGATGGCCCTGGAGGGAACATGGGTGGAAAGTGGT
 GACATCGTTCATGAAGGCCCTGGACACGAGGACCCCATGGACACCGACCACATGATGTCCTAGCCA
 TCGAGGCCACGACCATCGAGGGCCACCCTCATGAACACCGTGGTCTGATGGCCATGGGGGAGGCGGC
 CACCGAGGCGATGATGGAGGCCACAGTCAAGGAGGACATGTCAAACCGCCCTGTCTGCCGACACTTCA
 TGATGAAGGGCAACTGCCGCTATGAGAACAAGTGCCTTCTACCACCGAGGGTCAATGGGCCCCCACT
 GCCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001163818

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| Insert Size: | 2667 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | <u>NM_001163818.1</u> , <u>NP_001157290.1</u> |
| RefSeq Size: | 4239 bp |
| RefSeq ORF: | 2667 bp |
| Locus ID: | 52040 |
| UniProt ID: | <u>Q80W00</u> |
| Cytogenetics: | 17 18.77 cM |
| Gene Summary: | Scaffold protein which mediates the formation of the PTW/PP1 phosphatase complex by providing a binding platform to each component of the complex. The PTW/PP1 phosphatase complex plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Mediates interaction of WDR82 and PPP1CA. Inhibitor of PPP1CA and PPP1CC phosphatase activities. Has inhibitory activity on PPP1CA only when phosphorylated. Binds to mRNA, single-stranded DNA (ssDNA), poly(A) and poly(G) homopolymers.[UniProtKB/Swiss-Prot Function] |